The user manual of LED display's RH-128N control card

I：Hardware parameters：

1. The maximum number of points

solid color P10：128*16000(8 pieces high and 500 pieces wide)
bicolor P10： 64*16000(4 pieces high and 500 pieces wide)
bicolor P16： 64*16000(8 pieces high and 1000 pieces wide)
F3.75 F5 solid color：128*16000(4 pieces high and 250 pieces wide)
F3.75 F5 bicolor： 128*16000(4 pieces high and 250 pieces wide)

2. Adaptive scope

Single color or double color LED display with different specifications of 1/16, 1/8, 1/4 scan.

3. Number of programs

In support of 256 programs, each can be settled to eight free districts.

4. Communication Mode

Network Communication

5. Supply voltage

Voltage range supported: 4.5V-5.5V

6. Status of indicator light

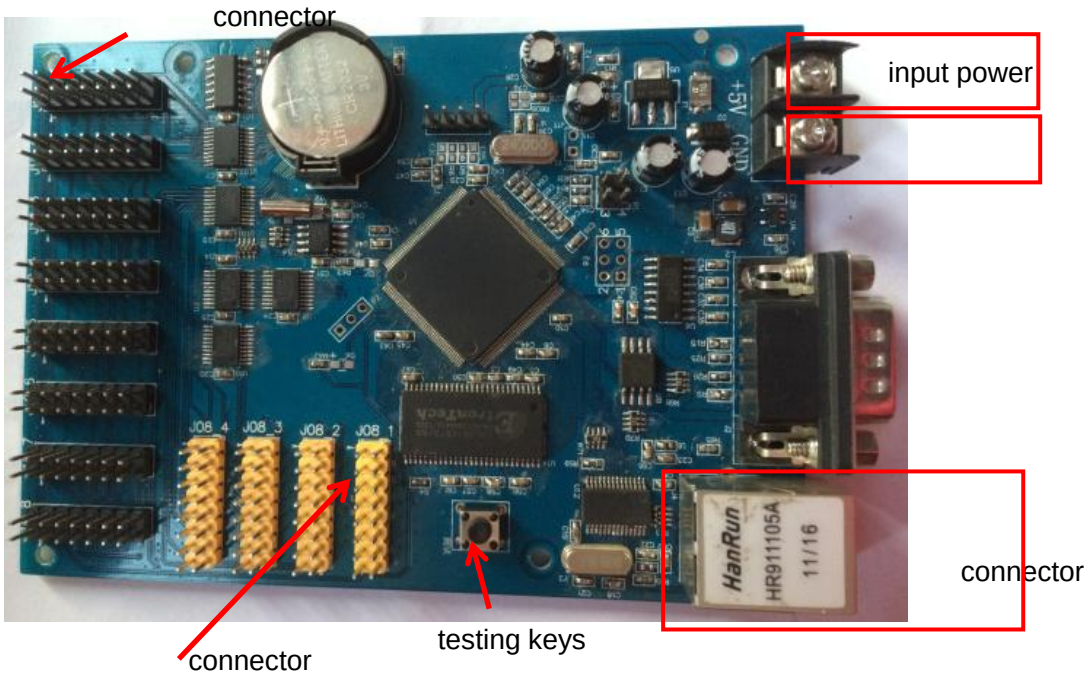
D5: The power supply lamp, always on with electricity (the light of the control card);
Ethernet interface lamp: green light is on all the time, yellow light flashes.

II：Product advantages

Cluster control, unified management, low price

III:The connection of control card and display screen

First: Schematic diagram of control card interface

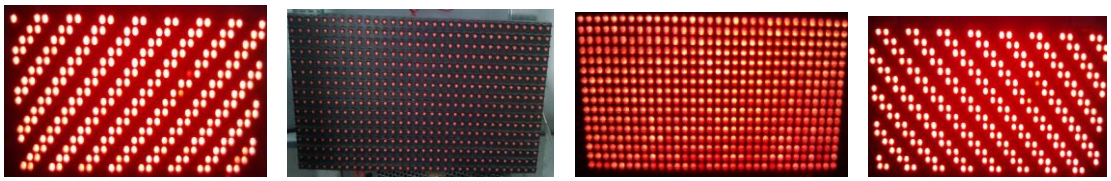


Second: Connection of the control card and display screen hardware

According to the scan mode of display screen, if it is 1/4 scan then connect to T12 port, and if it is 1/16(or 1/8) scan then connect to T08 port. The first pin between the display screen and control card should correspond to each other when connecting winding displacement.

After connection above, connect the +5V terminal and GND of the 5V-power supply in indicate screen respectively with the +5V and GND of the control card, and connect the power supply, then press the test button on the control card to test whether there is error with the hardware connection, and by pressing on the test button, the display screen will be switched to a test status.

Test states such as left-hand diagonal, black screen, full bright, right-hand diagonal appear successively.



Left-hand diagonal black screen full bright right-hand diagonal

If not, please check winding displacement connection and display screen.

IV. Network communication

There are two types of network communications-LAN and WAN, next we

will introduce the LAN communication.

Direct cable connection: Both ends of the cable are 1, 2, 3, 6.

Cross ruling connection: one end of the cable is 1, 2, 3, 6, and the other end is 3, 6, 1, 2.

Crossover cable is needed for connecting the control card directly with laptops while both straight and crossover cables can be used to connect the control card with desktops.

Note: if the computer is dual-NIC, you must choose the local connection IP, if another network card is Wi-Fi, you must stop using Wi-Fi before send program.

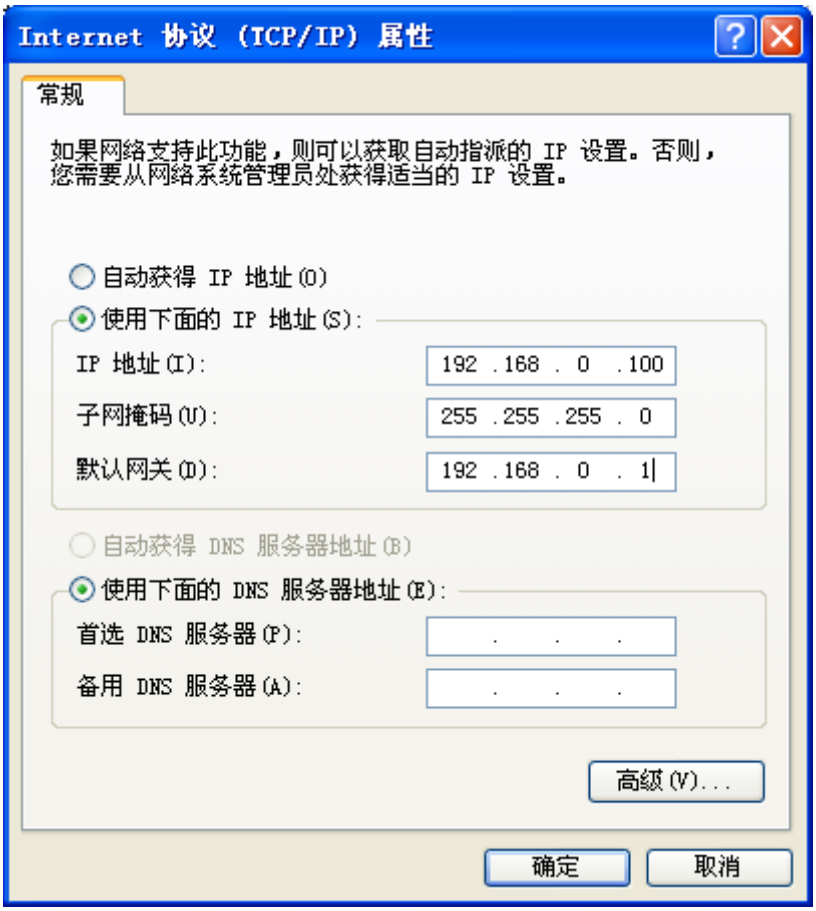
128N connection can connect directly with computer as well as router and interchanger.

1. Steps of directly connection between 128N and computer:

Step 1: Set up the computer IP

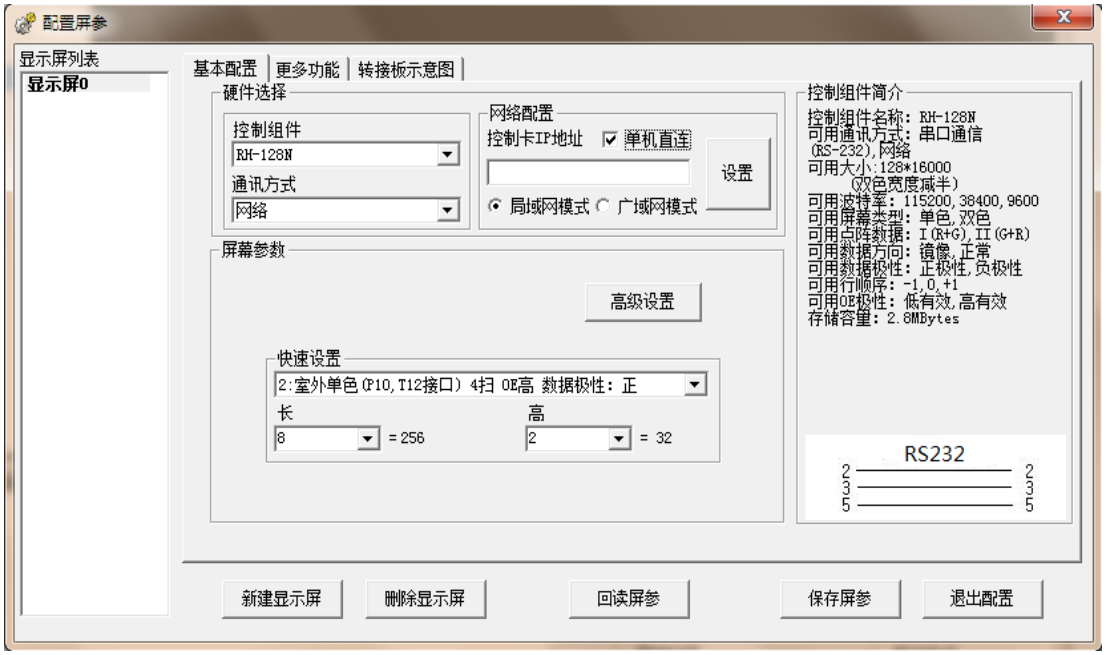
Right click on the network neighborhood-----Properties, right click local connection in the popup dialog. -----attribute, the following dialog box appears:

Select Internet Protocol (TCP/IP), click properties, configure computer IP as the following figure, then click confirmation.



Step 2: Setting screen parameter

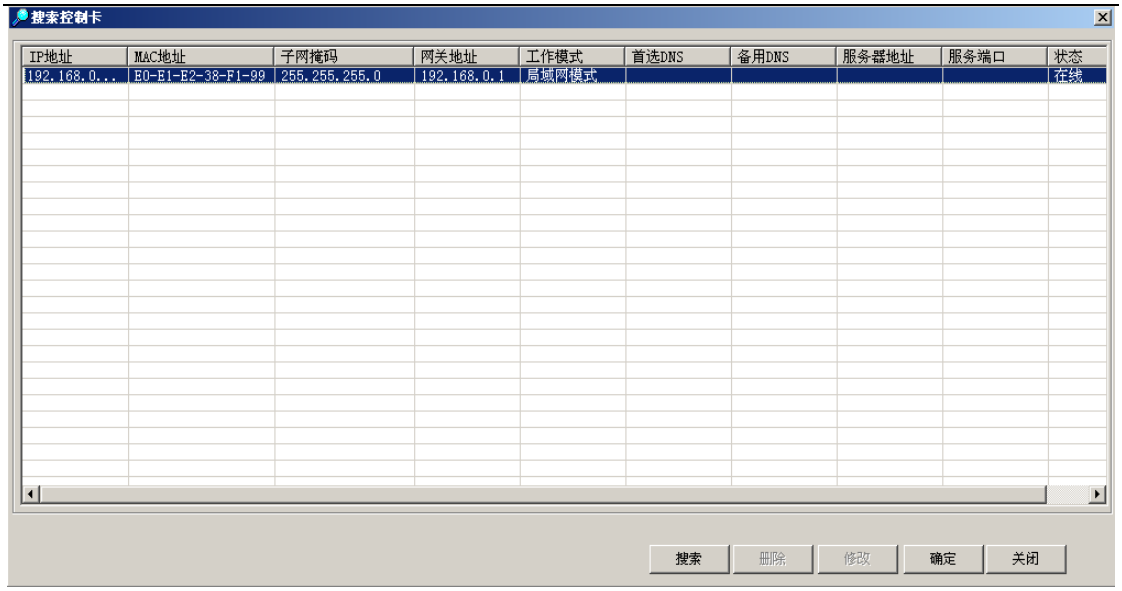
Control Card and Display Screen, directly connect the computer's Ethernet port by a cable, open software, click screen parameter setting, input password 888. Access the interface of screen parameter setting, choose the RH-128N control assembly, choose the network communication, as the following figure: choose LAN model, now the IP address of control card is empty, check click connect, adjust to display screen parameters, click "save screen parameters", then the screen parameter setting of control card is completed. Then add program-- click subtitle, text or time option, edit corresponding contents to finish the program, and click the send button.



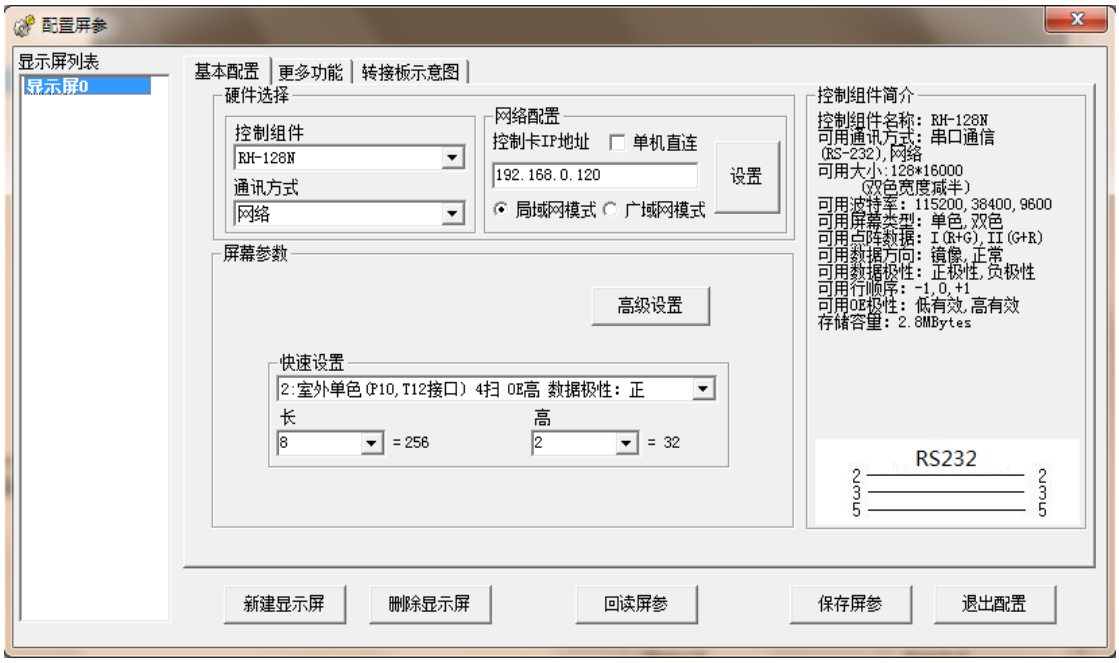
2. Setting steps of modifying control card's IP.

If the computer's gateway is 192.168.1.1, it is necessary to change the control card's IP, choose to click LAN model instead of directly connect, then the IP address of control card would be empty, here click the setting option.

When you enter the control interface of IP settings and click "search", the following dialog box will appear:



Double-click IP address can change the control card's IP, click OK button when it finished, and then the IP address of control card will show up on the screen parameter setting interface.



According to current height of display screen used, you should set the screen parameters by width, OE polarity, data polarity, scanning mode.

3. Control card connects with router or exchanger directly

The methods and steps of directly connecting control card with router or exchanger and with computer is consistent, and the only difference is

that the control card first connect router and exchanger by cable, then computer can conncet with exchanger or router.

Thank you for using "the RH-128N control card of Zhengzhou Ruihexin". If you have any technical questions with the control card that can't be resolved, please do not hesitate to contact us.

Technical support: 15238080525 18037131927 18037891691 18037891692